MO-ENG-C46

	Rev. 4-99
File Code:	Coop. Folder
	Shoot 1 of 2

Landowner:	Sik		
Address:	Field No		
Designed by:	Date: Checked By:		
	HAZARD CLASSIFICATION CHECK FACTORS WHICH APPLY TO THIS DAM		
Signature	Located in rural area.  Effective height 35 feet or less.  Height x storage less than 3000.  Downstream development limited to farm buildings, farmland, township, county or supplementary state roads.  Little or no potential for future downstream development.  Downstream valley is as wide or wider than at dam site.  Hazard classification is class (a).  Date:		
Signature			
	DESIGN PROCEDURES 1/		
	Drainage Area: Acres		
Emergency Emergency 2. For Draina	ge Area 10 acres or less: spillway bottom width = 10 ft. spillway depth = 1.0 ft. flow depth + 1.0 ft. freeboard = 2 ft.  ge Area 11-20 acres:  priate data in Tables A thru E and multiply factors in spaces provided below:		
Table A	Table B Table C Table D Table E	Table E	
10 Yr/24 Hr Rainfall Factorial Facto	RCN         Factor         Watershed         Storage         Aux. Spwy.           60         0.5         Slope         Factor         Ratio         Factor         Flow Depth         Fac           9         65         0.8         0-3%         0.7         10         0.4         0.5'         1.           70         1         3-8%         1         15         0.6         1.0'         0.4	3 14	
5.4" 2 5.6" 2			
5.8" 2	5 85 2 40 or more 0.9		
Storage Ra	tio: Drainage Area ( )		
	Pool Area ( )		
Auxiliary = Spillway Bottom Width	Round to nearest ratio shown in Table D  A Comparison of the Compa		
=	Ft.; Use Ft. (10 Ft. Min.)		
Auxiliary = Spillway Depth	+ 1.0 Ft. Freeboard = Ft.  Flow Depth (From Table E)		

This design procedure is limited to Class A hazard ponds with drainage area 20 acres or less, effective height 20 feet or less, total height less than 35 feet, no pipe spillway, "Fair" or "Good" auxiliary spillway condition, and 1 to 10% auxiliary spillway exit slope. Trickle tubes may be used. Use Form MO-ENG-40 or Pond Program for larger ponds and structures.

USDA-NRCS

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## LAYOUT

Landowner									
Surveye Station	ed by B.S.	H.I.	F.S. or grade rod	Top of Dam Elev.	Settled fill ht	Date Settlement	Slope stakes and remarks		
Station	Б.5.	11.1.	1.5. of grade fou	Top of Bain Elev.	Settled IIII IIt	Settlement	Stope stakes and remarks		
					<u> </u>		<u> </u>		
Dam:	Elev. S	ettled Fil	1:	TW:	ft.	Side slopes: U	JS: DS:		
	Auxilia	ıry Spillv	vay: Crest Elev		Width _		ft.		
Auxiliary Spillway: Crest Elev Width ft.									
Sec	c.								
Sec T R									
F	₹								